Belkin® Secure 4 port Windowing KVM Switch User Manual

Models:

F1DN104M - Secure 4-port DVI-D Single-link Windowing KVM w/audio and CAC

F1DN204M - Secure 4-port DVI-D Dual-link Windowing KVM w/audio and CAC

F1DN104Y - Secure 4-port DisplayPort Windowing KVM w/audio and CAC

Belkin® Secure 4 port Windowing KVM Switch User Manual - 8820-00777 Rev. A00

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Section 1 - Introduction

Thank you for purchasing this Belkin Secure Windowing KVM. This product is designed for use in secure defense and intelligence environments across wide security gaps. This 3rd Generation Secure Windowing KVM offers multiple security features ensuring that no data will leak between connected computers running at different security levels even if both these computers attempt to attack the KVM. This product provides the highest security safeguards and features that meets today's and will meet future cyber prevention requirements.

This User Manual provides all the details you'll need to install and operate your new product, in addition to troubleshooting guidance—in the unlikely event of a problem.

What is Windowing KVM?

There are many cases where one computer user needs to work simultaneously with few computers. The Belkin Secure Windowing KVM is designed to provide users with native windowing environment across isolated networks. Connected computers may operate at different isolated networks having different security levels without exposing the organization to the risks of information leakage through the KVM. The Belkin Secure Windowing KVM device uses advanced video processing technology to draw a high resolution dynamic "mosaic" of images generated by different computer sources. Built-in video sources isolation forces unidirectional flow of data through the USB and video ports. The product was designed and certified National Security agencies.

Package Contents

- Belkin Secure Windowing KVM
- 12V/5A Universal AC/DC Power Supply
- 5-buttons USB mouse
- Administrator mode access keys
- This User Manual

Important Security Note:

If you are aware of potential security vulnerability while installing or operating this product, we encourage you to contact us immediately at the following email address:

gov_security@belkin.com

Important:

This product is equipped with always-on active anti-tamper system. Any attempt to open the enclosure may activate the anti-tamper system and render the unit permanently inoperable. If the unit's enclosure appears disrupted or if all the port LEDs flashes continuously, please call Belkin Technical Support at 1 (800) 282-2355

Section 2 - Overview

Security Features

The Belkin Secure Windowing KVM is the most advanced and secure commercially available Windowing KVM available today. It is based on Belkin's line of secure KVM switches which are commonly used by different security agencies around the world. The product is equipment with multiple security and safety features to assure no leakage of information between connected computers or their peripherals.

Unidirectional Data Paths

Optical diodes used to enforce unidirectional data flow from the peripheral devices to computers preventing potential leakage paths between computers even in the severe threat of two infected computers attacking the Belkin Secure Windowing KVM.

No Shared Resources

This product is designed to securely operate even when peripheral devices are vulnerable to signaling attacks. The Belkin Secure Windowing KVM does not allow computer access to any shared resource and does not share controllable power sources.

No Software - Physics Based peripheral protection/isolation

Hardware is used to draw images and process video. The Belkin Secure Windowing KVM product does not use a computer, operating system or software. No software installation required on connected computers either.

Dedicated Processors for Emulation

The Belkin Secure Windowing KVM product features a dedicated processor per computer port to emulate peripheral devices. This keeps each computer running on different security levels physically separated and secure at all times, and prevents any unintended data leakage between computers.

Non-Reprogrammable Firmware

The product features custom firmware that is not reprogrammable, preventing the ability to remotely attack the KVM control logic.

USB Ports Protection

Console USB ports are protected from the use of storage and other unsafe USB devices through strong filtering (independent of computer protection means). Unqualified devices are rejected when connected to the product. Only mouse and keyboard data are passed through.

Heavy-duty Tamper-Resistant Enclosure

The Belkin Secure Windowing KVM uses thick metal components to protect the product from physical tampering and to minimize radiated electromagnetic emissions that can be snooped or intercepted.

Active Always-On Anti-Tamper

Active chassis anti-tamper system prevents the Belkin Secure Windowing KVM electronic circuitry from being accessed and tampered with by permanently disabling the product once tampering is detected.

Please note: Belkin Secure KVM Products cannot be upgraded, serviced or fixed.

Tamper-Evident Label

A holographic security tamper-evident label is placed on the enclosure to provide a visual indication if the Switch has been opened or compromised.

Common Access Card (CAC)

Belkin Secure Windowing KVM patented CAC Ports enables secure use of not only CAC or smart-card readers but also biometric readers, face recognition and iris recognition devices. Separate cables used for this port enable further protection and isolation of this function.

Secure Packaging

“Tear away” packaging ensures secure delivery of the product as it is routed to the end user.

Common Criteria EAL-4 Listing

The product is listed by the Common Criteria organization. It is Common Criteria validated to EAL 4+ (Evaluation Assurance Level 4) to assure the highest level of protection.

Operational Features

The Belkin Secure Windowing KVM was designed with the user in mind for today's IT environment. The Secure KVM is designed using real-time video processing to provide a user-friendly windowing environment while keeping connected computers fully isolated. Below is a summary of some key features incorporated into the product.

Works simultaneously with four isolated networks

The user can work in a single display while accessing four isolated networks having different security levels through windows.

Real-time and real quality video

Pixel-by-pixel video image. No quality loss, latency, reduced colors, dropped frames or artifacts. Fastest digital video processing technology available in any KVM today. Less than 30 milisecond latency.

Easy Customization

Administrator mode enables easy customization of channels, colours, cursors, task-bar, background etc. User programmeable buttons enable quick setting of user defined screen arrangements.

CAC Port

Belkin Secure Windowing KVM products support parallel switching of wide set of user authentication devices including CAC, smart-card and biometric readers.

Audio Support

The Belkin Secure Windowing KVM supports audio out switching. Microphone switching is not supported to prevent analog leakages through audio ports.

CAC Port Host Detection and Enable/Disable Functions

Belkin's patented Host detection function enables simple switching of display, keyboard audio and mouse without disconnecting user authentication session through detection of unconnected computer and through the use of front panel CAC enable / disable switches.

DCU (Desktop Controller Unit) Support

The Belkin Secure Windowing KVM products support the patented Desktop Controller Device to enable easy and intuitive KVM operation at the user's desktop. Channel names may be programmed into the DCU display to improve usability and security.

Advance Scaling Function

The Belkin Secure Windowing KVM has an advanced scaling function allowing the user to scale the video source 2x and 4x smaller to assure good view and superb work experience. User can now fit 4 full HD sources on a single HD screen by scaling each source and all in real time with no data loss.

Pick and tile scaled Mode

Allowing users to focus on a main source while viewing the other sources or tile all of the sources equally.

Bloomberg Keyboard Support

The Belkin Secure Flip KM supports the Bloomberg Keyboard through the Console PS/2 Keyboard jack.

Equipment Requirements

Cables

Belkin highly recommends you use you use Belkin Cable Kits for your product to help ensure superior security and performance. These cables offer the highest quality possible and optimal data transmission.

One Cable Kit is required per connected computer.

Note: Due to USB signal limitations, the cable length cannot exceed 15 feet (4.6m) unless an active USB extender is used.

Equipment Requirements

Belkin DVI-D/USB KVM Cable Kits with audio

F1D9012b06 – 6 ft. (1.8m)

F1D9012b10 – 10 ft. (3m)

F1D9012b15 – 15 ft. (4.6m)

Belkin CAC USB A/B Cables

F1D9013b06 – 6 ft. (1.8m)

F1D9013b10 – 10 ft. (3m)

F1D9013b15 – 15 ft. (4.6m)

Belkin Smart Cables

F1D9008b06 (DVI to VGA Smart Cable, 6')

F1D9009b06 (VGA to DVI Smart Cable, 6')

F1D9011b06 (USB to DVI-I Smart Cable, 6')

F1D9017b06 (DP to DVI Smart Cable, 6')

Belkin DP to DVI Cables F2CD002b06-E (DP to DVI)

The Belkin Secure Windowing KVM is compatible with computers, thin-clients, servers and laptops running on, but not limited to, the following OS platforms:

- Windows® 2000
- Windows XP (Home/Professional)
- Windows 2003 Server
- Windows 7
- Windows Vista®
- Red Hat® Linux®
- Ubuntu® Linux®
- Other Linux distributions
- Mac OS® X v10.3 and higher.

Laptop docking stations having DVI or HDMI display output are supported directly (VGA also supported through the use of Belkin Smart-Cable).

Software installation is not needed on any connected computer.

For latest compatibility list see the Belkin website or contact Belkin support.

USB Keyboard console port

The Belkin Secure Windowing KVM USB keyboard console port is compatible with the following types of devices:

- Standard USB keyboard;
- Standard USB mouse; and:
- Bar-code readers emulating USB keyboard.

Notes:

- Keyboard devices having internal USB hubs are not supported.
- Composite devices having keyboard function and mouse function are supported including extenders.

PS/2 Keyboard console port

The Belkin Secure Windowing KVM PS/2 keyboard console port is compatible with the following types of devices:

- Standard PS/2 keyboard; and:
- Bar-code readers emulating USB keyboard.

USB Mouse console port

The Belkin Secure Windowing KVM USB mouse console port is compatible with the following types of devices:

- 5-Buttons USB mouse

Notes:

- Mouse devices having internal USB hubs are not supported.
- Composite devices having mouse function are supported including extenders.

PS/2 Mouse console port

The Belkin Secure Windowing KVM PS/2 mouse console port is compatible with the following types of devices:

- 5-Buttons PS/2 mouse.
- Regular PS/2 (using a regular PS/2 mouse might create some limitations and is not recommended.

User Authentication Devices (F1DN104M, F1DN204M only)

The Belkin Secure Windowing KVM is compatible with the following types of user authentication devices plugged into the product CAC Port:

- USB smart-card reader (or Common Access Card reader); or:
- USB biometric device (such as fingerprint recognition device); or:
- USB authentication token.

User Display

The Belkin Secure Windowing KVM are compatible with the following types of user displays:

- DVI-D Single-link; or:
- DVI-D Dual-link interface that may operate as single-link(1); or:
- HDMI (adapter to DVI needed); or:
- DVI-I (in digital interface mode).
- Maximum display resolution supported: 1920x1200

Notes:

(1) Some dual-link DVI-D displays can only operate in dual-link mode. Do not use these displays with F1DN104M and F1DN204M.

(2) Some older displays may cause long delays when switching between normal view mode and full screen mode.

Dual Display Model F1DN204M

The F1DN204M uses two displays. It is preferable that both displays will be the same type and model.

Displays must be landscape oriented and installed side by side in close proximity to one another.

Displays must be either 1920 x 1080 or 1920 x 1200 native resolution.

DisplayPort Model F1DN104Y

The F1DN104Y is compatible with the following types of user displays:

- DisplayPort capable display.

Notes:

Conversion from DisplayPort to DVI is not recommended due to video quality loss.

Some older displays may cause long delays when switching between normal view mode and full screen mode.

User Audio Devices

The Belkin Secure Windowing KVM is compatible with the following types of user audio devices:

- Stereo headset; or:
- Amplified stereo speakers.

Power Supply

Use only the Belkin power supply provided with the Belkin Secure Windowing KVM product. In case of a power supply failure, order a replacement unit from Belkin.

Safety Precautions

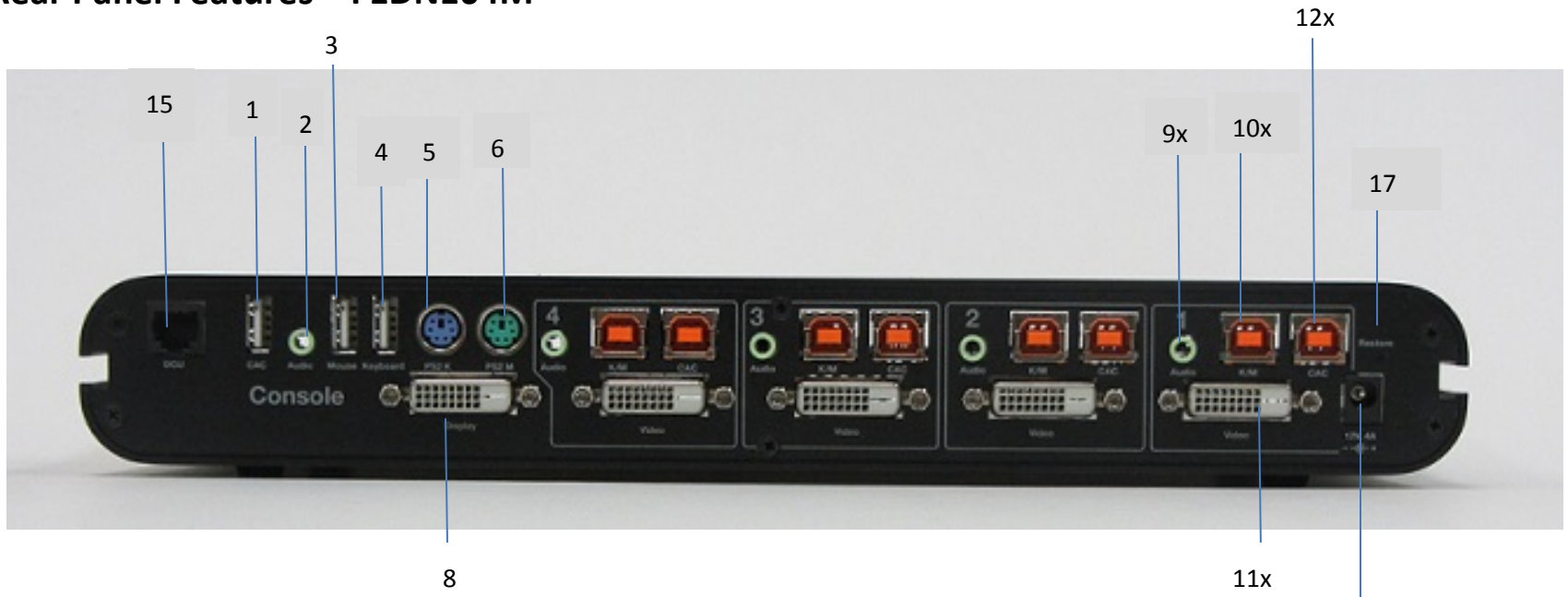
Please read the following safety precautions carefully before using the product:

- Before cleaning, disconnect the product from DC power.
- Be sure not to expose the product to excessive humidity.
- Be sure to install the product on a clean secure surface.
- Do not place the DC power cord in a path of foot traffic.
- If the product is not used for a long period of time, remove the product's wall-mount power supply from the mains jack.
- If one of the following situations occurs, get the product checked by a qualified service technician:
    - The product's power supply is overheated, damaged, broken, causes smoke or shortens the mains power socket.
    - Liquid penetrates the product's case.
    - The product is exposed to excessive moisture or water.
    - The product is not working well even after carefully following the instructions in this user's manual.
    - The product has been dropped or is physically damaged.
    - The product has obvious signs of breakage or loose internal parts.
- The product should be stored and used only in temperature and humidity controlled environments as defined in the product's environmental specifications.
- The wall-mount power supply used with this product should be the model supplied by the manufacturer or an approved equivalent provided by Belkin or an authorized service provider. The use of improper power source will void product warranty.
- Product contains internal battery. Battery is non-replaceable. Never attempt to replace battery as any attempt to open product enclosure would permanently damage the product.

Front Panel Features F1DN104M

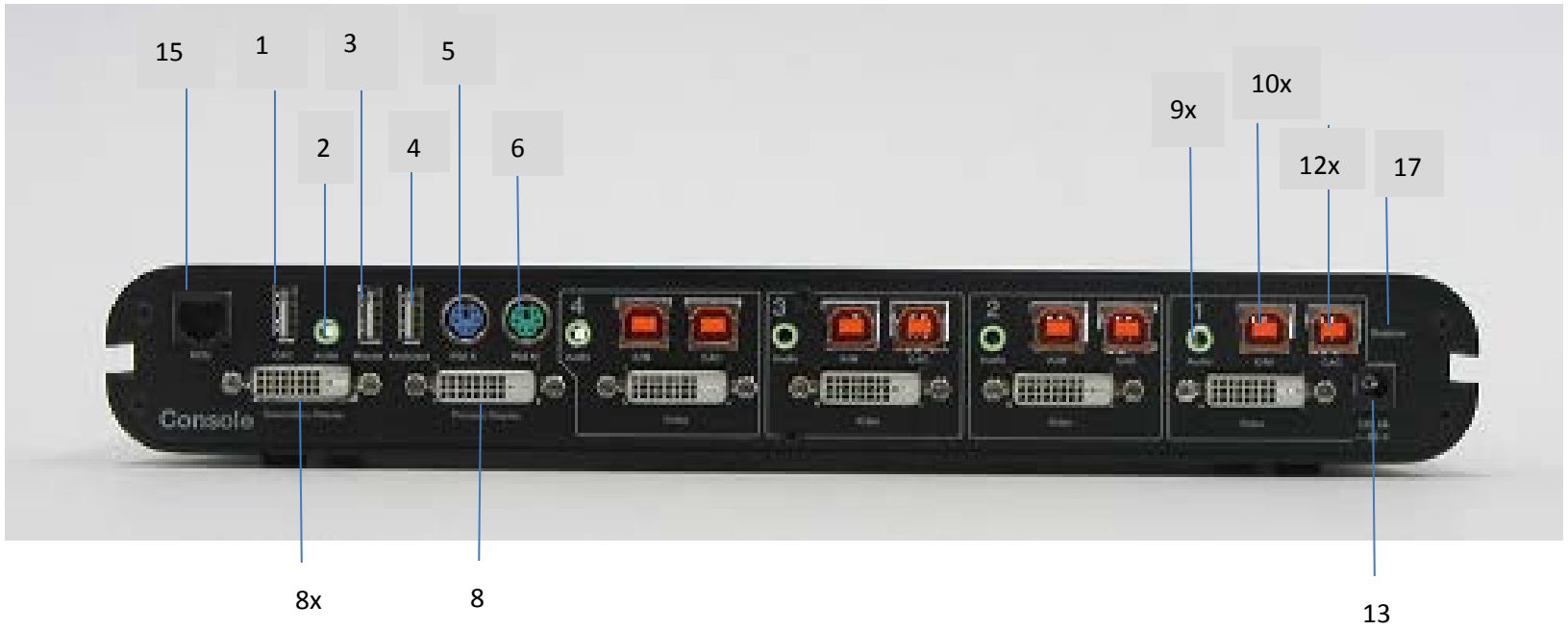
1 – Channel number
2 – Channel select illuminated push-button
3 – CAC Enable slide switch
4 – Color chip
5 – CAC LED
6 – Tamper Evident Label
16 – Administrator key-lock

Rear Panel Features – F1DN104M



1- CAC Device USB jack
2- Console Audio Out Jack
3- Console USB mouse jack
4- Console USB Keyboard
5- Console PS/2 Keyboard jack
6- Console PS/2 mouse jack
8- Console display out jack
9x- Host audio input jack
10x- Host KM USB jack
11x- Host primary video input jack
12x – Host CAC input Jack
13- DC power input jack
15- DCU cable jack
17 – Restore Factory Defaults push-button

Rear Panel Features – F1DN204M



1- CAC Device USB Jack
2- Console Audio Out Jack
3- Console USB Mouse
4- Console USB Keyboard Jack
5- Console PS/2 Keyboard Jack
6- Console PS/2 Mouse Jack

8 – Primary Display out jack

8x – Secondary display out jack

9x – Host Audio input jack

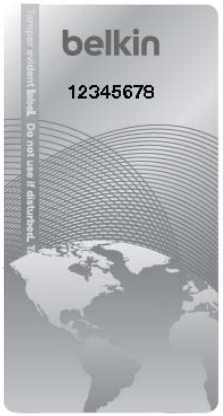
10x – Host KM USB jack
11x – Host Primary video input jack
12x – Host CAC input Jack
13- DC Power input jack
15 – DCU cable jack
17 – Restore Factory Defaults push- button

Tamper Evident Label

The Belkin Secure Windowing KVM uses a holographic tamper evident label to provide visual indications in case of an enclosure intrusion attempt. These labels indicate white dots or the text “VOID” once removed. When opening product packaging inspect the four tampering evident labels.

IMPORTANT NOTICE:

If for any reason the tamper-evident label is missing, appears disrupted, or looks different than the example shown here, please call Belkin Technical Support at (800) 282-2355.



Belkin Holographic Tampering Evident Label

Active Anti-Tampering System

Belkin Secure Windowing KVM is equipped with always-on active anti-tampering system. If mechanical intrusion is detected by this system, the product will be permanently disabled and LEDs will flash continuously. If a DCU is used, the DCU will indicate that the Belkin Secure Windowing KVM has been tampered with.

If the product indicates a tampered state - please call Belkin Technical Support and avoid using the product

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Product Specifications

Part No.	F1DN104M, F1DN204M, F1DN104Y
Enclosure	Heavy-duty extruded aluminum enclosure with metal faceplate
Power Requirements	12V DC, 5A (maximum) power adapter with center-pin-positive polarity
AC Input	100 to 240VAC
No. of Secure Channels	4
No. of Computers Supported	4
Displays Supported	**104M, 104Y models:** 1 x single-link DVI-D display; HDMI interface supported with adapter **204M model:** 2 x single-link DVI-D display; HDMI interface supported with adapter **104Y model:** 1 x DisplayPort1.1 or 1.2 compatible display

Output Display Resolutions Supported

Resolution\Model	104M	204M	104Y
800x600 (4:3)			
1024x768 (4:3)	●	●	
1280x800 (8:5)	●	●	●
1280x1024 (4:3)	●	●	●
1680x1050 (8:5)	●	●	
1920x1080 (16:9)	●	●	●
1920x1200 (8:5)	●	●	●
2x1920x1080 (16:9)		●	
2x1920x1200 (8:5)		●	
2560 x 1440 (16:9)			●
2560 x 1600 (8:5)			●

Input video resolution	*Up to 1920x1200*
Input Windows Size	800 x 600 (4:3) SVGA; or 1280 x 1024 (5:4) SXGA; or 1920 x 1080 (16:9) HD1080; or 1920 x 1200 (16:10) WUXGA.

Console Keyboard Input	USB Type-A female connector or PS/2 Mini-DIN 6 pin female connector
Console Mouse Input	USB Type-A female connector or PS/2 Mini-DIN 6 pin female connector
Console CAC Input	USB Type A
Console Display Port	1 DVI-I single-link female connector (F1DN104M) 2 DVI-I single-link female connector (F1DN204M) 1 DisplayPort female connector (F1DN104Y)
Console Audio Out	3.5mm stereo jack
PC Keyboard/Mouse Ports	USB Type-B jack
PC CAC Ports	USB Type-B jack
PC Audio Input	3.5mm stereo jack
PC Video Input Port	DVI-D Single-link female
Port Selectors push-buttons	4
LED Indicators	4

User Functions

- Toggling between normal mode and system modes by mouse side buttons click (5-Buttons mouse).
- Windows can be moved and resized.
- Cascading button arranges all 4 windows one on top of the other.
- Tile button arranges all 4 windows in a mosaic.
- Help button presents on-screen basic usage guidance.
- Double click to maximize a window to a full screen.
- Vertical and horizontal scroll bars to enable user control of viewable window.
- Minimize window to task-bar.
- Colored Task-bar and window border indicating channel.
- Mouse wheel cyclic toggling between active windows in system mode.
- Legacy mode – toggling between windows by keyboard Control + Function keys [Optional].
- 3 User defined preset buttons to save or load user settings.
- Keyboard shortcuts channel switching option.
- Disable channel function.

Administrator Settings

- Administrator mode is accessed through a key-lock in front panel
- 4 Selectable system cursor pointers.
- 6 Selectable window border widths.
- 16 Selectable window border colors.
- 2 Selectable task-bar sizes.
- 6 or 8 Selectable video output resolutions [model specific – see table above].
- Customer defined background bitmap [Optional]

Operating Temp	32° to 104° F (0° to 40° C)
Storage Temp	-4° to 140° F (-20° to 60° C)
Humidity	0-80% RH, non-condensing
Dimensions	80 (W) x 158 (D) x 34 (H) mm / 3.15 (W) x 6.22 (D) x 1.34 (H) inches
Weight	1 Kg. (2.2 lbs.)
Security Accreditation	Common Criteria EAL 4+
Made in	United States
Product design life-cycle	15 years per MIL-HDBK-217E

Section 3 - Installation

Before Installation

Unpacking the Product

Before opening the product sealed packaging inspect the seal condition to assure that product was not accessed or tampered during delivery. If packaging seal looks suspicious contact Belkin support team and do not use the product.

After seal removal inspect packaging content to verify that required components included. See packaging content list in page 3 above.

After the Belkin Secure Windowing KVM is removed from its packaging inspect the tampering-evident label to assure that product is properly sealed. If the label is damaged or missing contact Belkin support and do not use that product.

Where to locate the Belkin Secure Windowing KVM?

The enclosure of the product is designed for desktop or under the table configurations. An optional Mount Kit is available.

Product must be located in a secure and well protected environment to prevent potential attacker access.

If longer set of cables or if a Secure Fiber Extender (RFE) are used, the Belkin Secure Windowing KVM may be remotely located in a locked down facility to prevent unauthorized users access.

Consider the following when deciding where to place the Belkin Secure Windowing KVM:

- User access to the front panel push-buttons is typically not required as all user controls available through the mouse and indications available on screen.
- Keyboard and mouse cables length. Cables typically may be extended to a distance of 4.6 meters (15 feet).
- Display cable length. Typically may be extended to around 10 meters without video quality degradation (still depends on display and cables quality and must be tested prior to fixed installation).
- The location of the computers in relation to the KVM and the length of available KVM cables (typically 1.8 m)

Note: Due to USB and DVI signal limitations, the KVM cable length cannot exceed 4.6 m (15 feet) unless an active extender is used.

Warning: Avoid placing cables near fluorescent lights, air-conditioning equipment, RF equipment or machines that create electrical noise (e.g., vacuum cleaners).

Display selection considerations

Proper selection of user display is critical for the success of any Windowing KVM deployment. The information provided here represents the information gained in Belkin during evaluation and deployment projects.

- Avoid using old CRT displays.
- Some projects invested significant resources in the overall project design and implementation but neglected the display and peripherals. Users may reject the new system if proper display not used with the system. As large LCD cost going down daily, it become easier and cheaper to retrofit the user desktop completely during these projects.
- Proper size of the display is critical. To enable simultaneous work with several windows LCD panels larger than 22" diagonal are recommended.
- Try to use the larger LCD size possible (taking the user workstation / table size into consideration).
- Check if the display adjusts automatically to resolution changes. This feature is essential to support window maximization.
- Native resolution of the display should match output resolutions supported by the Belkin Secure Windowing KVM.
- Display should support DVI input. HDMI can be used with proper DVI to HDMI cable or adapter. In this case check audio out channels cannot be routed through HDMI.
- It is recommended to involve the users in the display selection process during evaluation and initial deployments.
- Consult Belkin support with specific display models and technical specifications.
- DVI-I to VGA converters cannot be used with the Belkin Secure Windowing KVM as it does not support analog video.

Dual Display Model 204M

- The 204M uses two displays. It is preferable that both displays will be the same type and model.
- Displays must be landscape oriented and installed side by side in close proximity to one another. Primary on the left and secondary on the right side.
- Displays must be either 1920 x 1080 or 1920 x 1200 native resolution.

DisplayPort Model 104Y

- Use DisplayPort 1.1 or 1.2 capable displays.
- Conversion from DisplayPort to DVI is not recommended due to video quality loss.
- Some older displays may cause long delays when switching between normal view mode and full screen mode.

Installation

Step 1 Connecting the Console devices to the Belkin Secure Windowing KVM

See figure above for connector locations.

- Connect the user display.
- Connect the user keyboard (USB or PS/2).
- Connect the user mouse (USB or PS/2). Verify that mouse is 5-buttons type.

Note: If USB keyboard is connected to the USB mouse port it would not work!

Note: Keyboards with integrated USB hub, card-reader, storage device or multimedia extension will be either not supported at all or only keyboard function will be operating.

- Connect the user authentication device to the CAC USB port
- Connect the user headphones or amplified speakers to the Belkin Secure Windowing KVM audio output jack.

Note: In any case do not connect a microphone to the Belkin Secure Windowing KVM audio output port.

Step 2 Connecting the Computers

Connect the 2-4 computers to the Belkin Secure Windowing KVM through the following steps:

- Connect each computer with KVM cable (DVI and USB or VGA and USB cables – for details on cables see page 6). USB cable can be connected to any free USB port in the computer.

Note: If computer is having more than one video output connector – first test for video output availability by connecting a display directly to that port.

Note: Note: The USB cable must be connected directly to a free USB port on the computer, with no USB hubs or other devices in between.

- Connect an audio cable to the computer audio output (lime green color) or line output (blue color) jacks.

Step 3 Power up

- Power up user display. Select through display setup menu DVI input if applicable.
- Power up the Belkin Secure Windowing KVM by connecting the DC power plug. Power up will take up to 30 sec.
- Power up the connected computers.

Note: When you power on your computers, the Belkin Secure Windowing KVM emulates both a mouse and keyboard on each port and allows your computers to boot normally. The computer connected to port "1" will be displayed on the user's display. Check to see that the keyboard, display, and mouse are working normally. Repeat this check with all occupied ports to verify that all computers are connected and responding correctly.

If you encounter an error, check your cable connections for that computer and reboot. If the problem persists, please refer to the Troubleshooting section in this User Manual.

Notice: If during installation as a result of bad output resolution (resolution not supported by display) the video image on the user display is lost it is possible to recover the device through the use of *Restore Factory Defaults* switch (see item 17 in page 12). Pressing this switch momentarily will return the Belkin Secure Windowing KVM to the original production settings including lowest output resolution.

For information on how to reset the device to factory defaults see the Troubleshooting section of this manual.

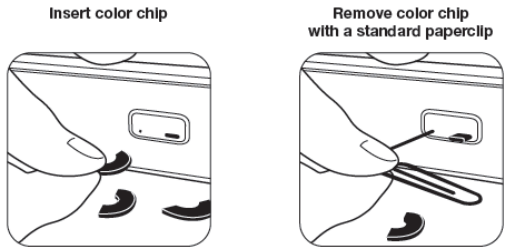
The following process can be performed before or after power up.

- If computer and Belkin Secure Windowing KVM supports user authentication device, connect another USB cable for the CAC function. CAC USB cable can be connected to any free USB port in the computer.

Color Code Chip Installation

The Belkin Secure Windowing KVM port-selector buttons can be color-coded for easier identification. Refer to the installation instructions below.

Note: You may have to remove the existing black color chip first.



Port Name Label

The included network-name labels can be placed in the area underneath the port-selector buttons for port identification. Blank labels are also provided.

Common Access Card (CAC) Configuration and Operation

CAC connection to the computer requires a separate USB cable connection and allows the user to specify whether there is a CAC required for that computer or not. This allows the CAC to be connected and controlled separately to the keyboard, mouse, video and audio.

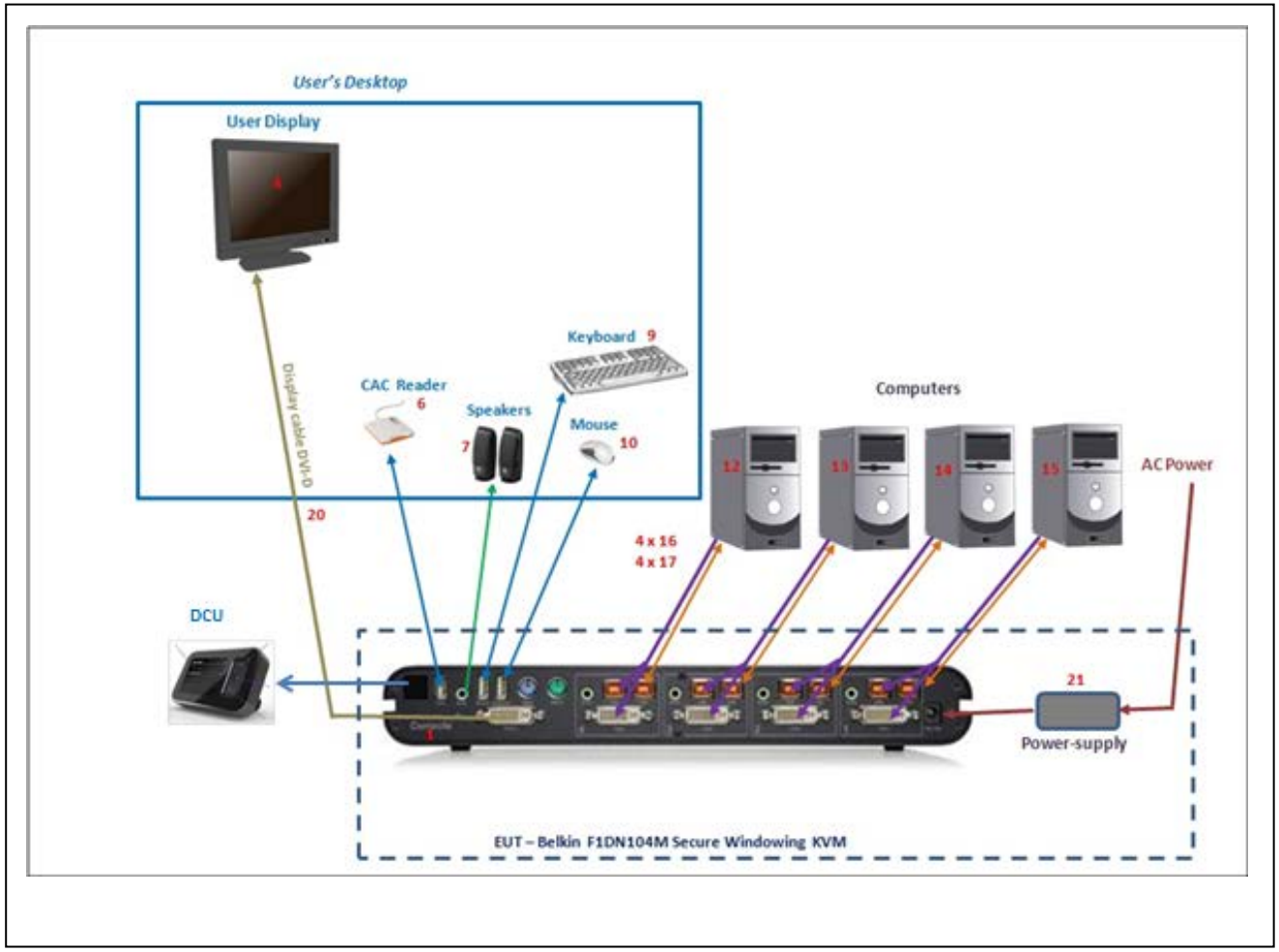
Step 1 Installation

1.1 Using the included USB cable, connect one end of the cable to the computer that requires CAC, and the other end to the CAC port on the KVM Switch that corresponds to the computer.
1.2 Enable CAC for the same port connection in Step 1.1 by switching the CAC switch to the right.
1.3 Repeat steps above for additional computers that require CAC.

Note: Make sure that the CAC switch is disabled (left) for all other non-connected CAC systems.

Once configured, the CAC connection will be switched only when required by the connected computer. When switching from a CAC enabled port to a non-CAC enabled port, the CAC connection will remain with the last previously selected port where the CAC was set to enable.

104M Typical system Installation



Administrator Setup

Now that the Belkin Secure Windowing KVM is connected and powered-on it is a good opportunity to setup some operational settings.

To enter administrator setup mode the administrator key should be inserted into the front panel keylock and rotated in clockwise direction. Once in administrator clicks on setup icon at the bottom left side of the screen, the Main Admin Setup windows appears and can be accessed. Details about administrator setup windows:

10 **Main Admin Menu –** Enables selection of System setup window (11) or channel specific window (10) using mouse.

11 **Channel menu** – Enables selection of channel input resolution (4 options) and border color from 16 color options.

12 **System menu** – Enable system level settings. Administrator can select:

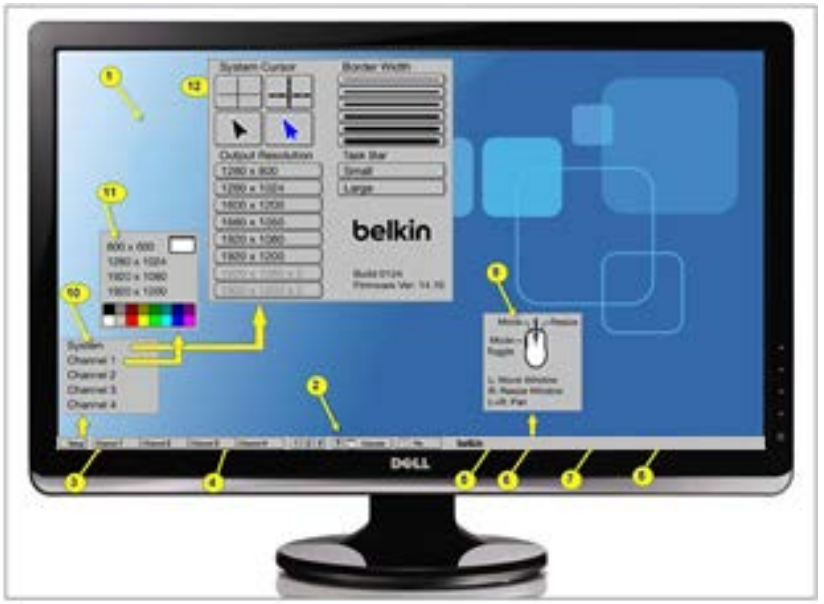
- Display output resolution from 2/6/8 options;
- Border width from 6 options;
- Taskbar size from 2 options; and
- System cursor type from 4 options.

Note: Rotation of the key lock to Administrator setup mode also affect: the following:

1. User preset buttons will become inactive.
2. All three user presets will be erased.

This is normal system behavior that designed to avoid configuration conflicts.

Note about input resolution setting: Selection of input resolution that does not match the attached PC will result unreadable image at that window. This may be fixed by entering administrator mode and change input resolution setting or by changing host resolution.



Notes about display resolution setting:

- The Belkin Secure Windowing KVM channel resolution, selected from the channel menu, determines the size of the channel window. It will not affect the actual resolution projected by the connected PC.

- The Belkin Secure Windowing KVM is capable of scaling the image in two possible factors: 2x and 4x allowing the user to fit more information on the same display size.

- Selection of resolution higher or lower than resolution range of connected display may result image loss! In this case you can change display to different type or restore factory defaults.

- To restore factory default settings – use a paper clip or another sharp object and press momentarily the recessed RFD switch located at the rear side above the DC power jack.

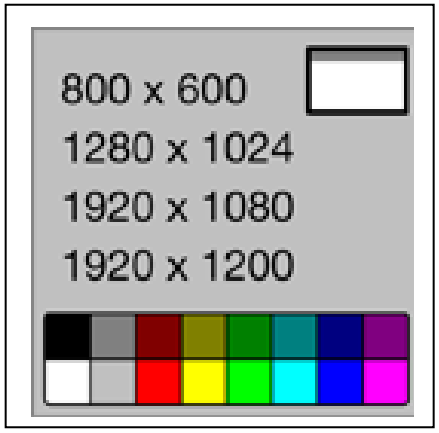
- See table in page 14 for supported output resolutions per model.

Once completed to set the required settings, the administrator key should be rotated back to the locked position and key must be removed to enable normal product operation.

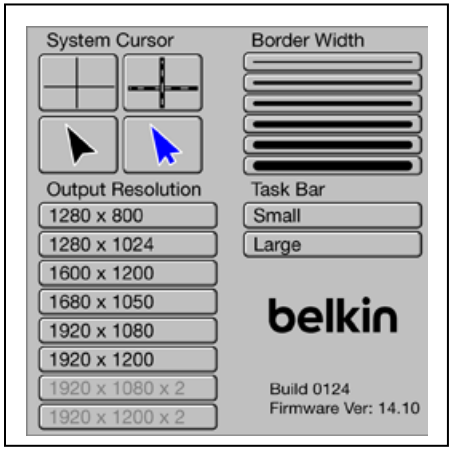
After Installation Checklist

Once completed to set requires settings – check the final device product configuration with all connected computers operating:

1. Check that each window is connected to the proper PC and have the required border color.
2. Check that each window is coupled to the proper keyboard and mouse (no cables are crossed between channels).
3. Check that each window is coupled to the proper CAC input (if applicable).
4. Check that each window is coupled to the proper audio output (if applicable).
5. Check that all video cable thumb screws are secured.
6. Check that administrator key was removed from the device.



Channel #1 Input resolution setting window



Single Display installation (104M)

In the Dual Display installation (204M) the two grayed out buttons in the picture on the left, will be functional

Installation is similar to a single display with the following changes:

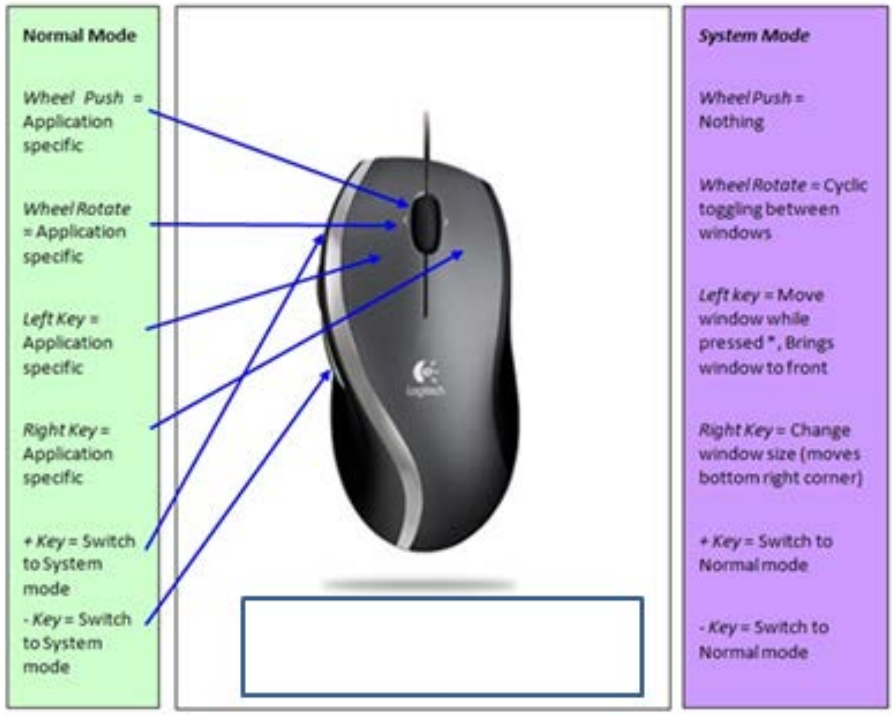
1. Displays must be either 1920 x 1080 or 1920 x 1200 native resolution. Do not use higher resolution as the image will be shown as a smaller window or will be rescaled (resulting a degradation in the displayed video quality.
2. It is recommended that both displays will be identical type and model.
3. Displays should be oriented in landscape.
4. Left side display must be connected to the primary console display output jack (the right side jack when looking from the rear).
5. Conversion to VGA monitor is not recommended.

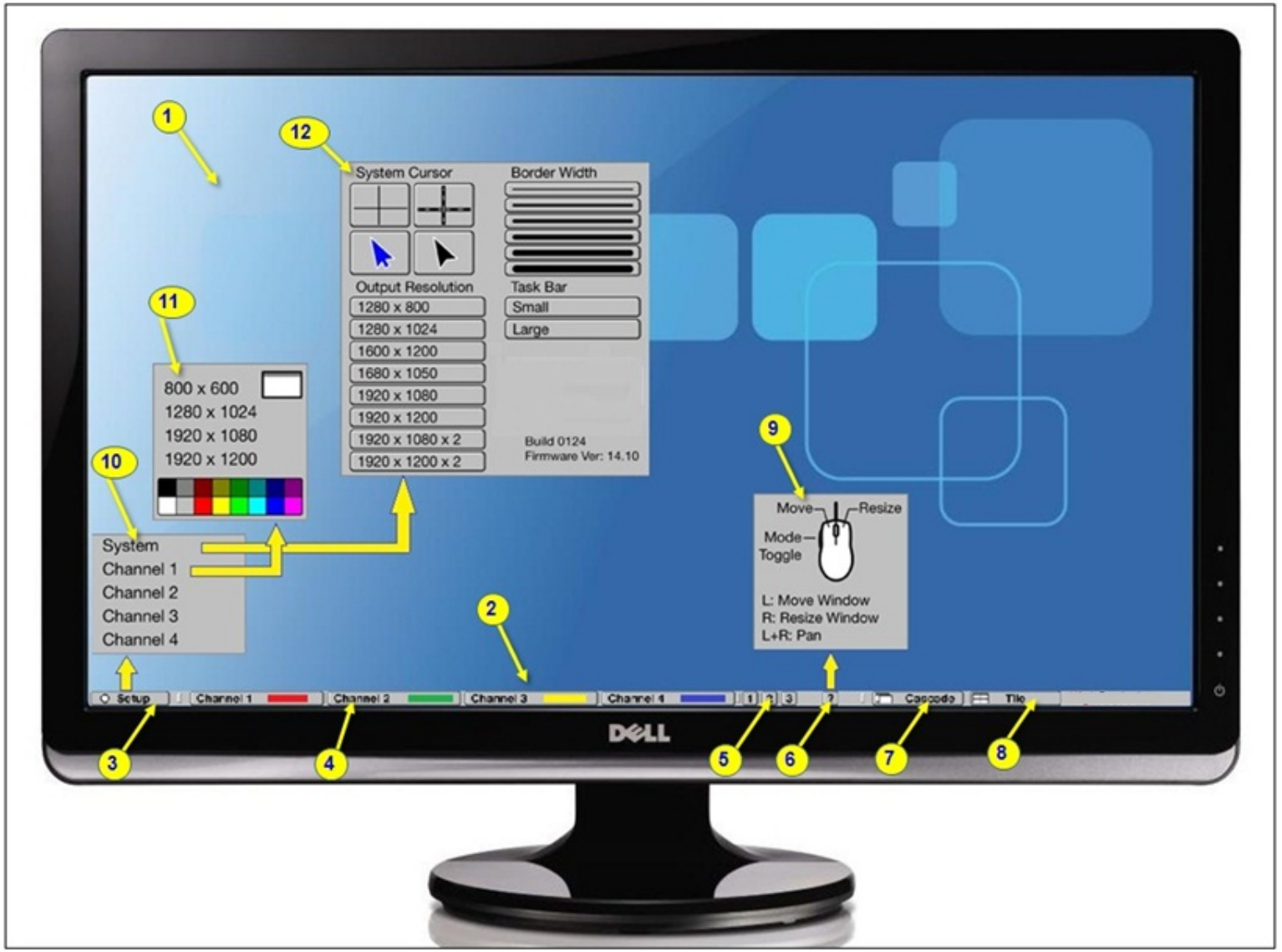
Section 4 - Operation

Now that you have connected your console and computers to the Belkin Secure Windowing KVM, it is ready for use. Default channel after power up is channel #1 as indicated by channel select LED #1 illumination. Device control is done using the 5-buttons mouse and display interaction.

The use of 5-buttons mouse enables the user to fully use all standard wheel mouse buttons for application specific tasks and still operate Belkin Secure Windowing KVM specific functions using the 2 extra side buttons.

The user may easily toggle between normal and system mode by pressing one of the +/- side buttons.


Normal Mode
Wheel Push = Application specific
Wheel Rotate = Application specific
Left Key = Application specific
Right Key = Application specific
+ Key = Switch to System mode
- Key = Switch to System mode
System Mode
Wheel Push = Nothing
Wheel Rotate = Cyclic toggling between windows
Left key = Move window while pressed *, Brings window to front
Right Key = Change window size (moves bottom right corner)
+ Key = Switch to Normal mode
- Key = Switch to Normal mode


1
12
System Cursor
Border Width
Output Resolution
1280 x 800
1280 x 1024
1600 x 1200
1680 x 1050
1920 x 1080
1920 x 1200
1920 x 1080 x 2
1920 x 1200 x 2
Task Bar
Small
Large
Build 0124
Firmware Ver: 14.10
11
800 x 600
1280 x 1024
1920 x 1080
1920 x 1200
10
System
Channel 1
Channel 2
Channel 3
Channel 4
9
Move
Resize
Mode
Toggle
L: Move Window
R: Resize Window
L+R: Pan
2
Setup
Channel 1
Channel 2
Channel 3
Channel 4
Cascade
Tile
DELL
3
4
5
6
7
8

Belkin Secure Windowing KVM modes and Functions

Operating Mode	Description	Functions
Normal Mode	All peripherals are mapped to active window. Some windows may be visible or hidden behind other windows.	Use +/- to exit (to system mode), CTRL | CTRL | +/- increase\decrease window scaling
System Mode	Mouse is not mapped to active window other peripherals are mapped to active window. Other windows may be visible or hidden behind other windows.	Point at window and click to make it active. Press +/- and move mouse wheel to scale window. Point at window and +/- (mouse side) to normal mode. Left click a window and move mouse to move window. Right click a window to resize it. Click both right and left and move mouse to move image inside window.
Full Screen Mode	Active window is maximized no other windows or menus are visible (except for secondary display in 204M model).	Use +/- to exit (to system mode)
Scaling mode	Main window is centered and not scaled. Other windows are scaled 1:4 and aligned to the right side.	Use wheel to change central window. All other system mode channels are available.
Tile Mode	4 channels are scaled 1:2 and displayed. All other features as in system mode.	System mode functions are available.
Administrator	Pre-sets are disabled system and channel menus are available. Requires administrator key.	System mode functions are available.

Normal Mode

The Belkin Secure Windowing KVM enables simultaneous interaction with 2-4 different computers using a single or dual display, keyboard and mouse. When the user interacts with an application at a specific window - that channel is active and the mouse and keyboard affecting only that channel. The top left corner of the active channel window is white as an indication. In Normal mode there is always one channel which is considered to be active. Mouse, keyboard and audio are mapped to the active channel.

The user may move to a different channel by:

1. Switching first to system mode. While in system mode the cursor will change to the selected system mode cursor and will enable free movement throughout the display area. Once in system mode the user may point at another window and use the +/- to make it active.
2. Using front panel push-buttons to select a different channel.
3. Using DCU (Desktop Controller Unit)

When the Belkin Secure Windowing KVM is in Normal Mode:

- Mouse cursor of the active computer (channel) is controlled by the console mouse.
- Mouse cursor symbol is generated / controlled by the computer operating system / application.
- Mouse movement is limited to the active window area.
- All mouse buttons (and wheel) will function based on the computer assigned specific role (not affected by the KVM) (the mouse side buttons are used to exist normal mode and switch to

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the active window computer.
- Audio output will only be heard from active computer.
- Active window will always be on top of all other windows.
- Task bar not shown on user display, buttons are not accessible.
- Pressing + / - (on the side of the mouse) mouse buttons will toggle the Belkin Secure KVM to System Mode.
- When using a PS/2 (which does not have the side buttons) pressing both right and left buttons at the same time will also toggle the KVM to System Mode.

System Mode

The mouse +/- side buttons triggers cyclic toggling between modes. System mode can be easily identified by the appearance of the title bar / task bar at the bottom of the display.

The Belkin Secure Windowing KVM system mode enables the user to manage his/her combined desktop and customize it for the job being done. This mode also enables the user to move between windows and to minimize/ maximize windows as needed.

In system mode there is also an active channel, indicated by a white top left corner but the mouse is controlled by the Belkin Secure Windowing KVM and not mapped to the active channel.

When the Belkin Secure Windowing KVM is in System Mode:

- Mouse cursor is controlled by the system mouse.
- Mouse cursor is generated / controlled by the Windowing KVM.
- Mouse movement is unlimited in all display area.
- Keyboard is routed to the active window (active window is always in front).
- Audio output is switched from the active window PC.
- Task bar visible and buttons are accessible.
- Pressing + / - mouse buttons will change to Normal Mode and the active window will be the window where the system cursor was last positioned.
- Left clicking on a window will bring it to the front and make it the active window.
- Pressing left mouse button and holding – will drag the window

under it.

- Double clicking on a window will maximize that window to full screen.
- Right click on the bottom right corner of a window and dragging will allow changing the window size (limited by the size set under the channel menu).
- Pressing both right and left keys on an active window will allow moving the picture inside the window (only applicable of the source resolution is larger the window size).
- Pressing and holding the +/- side mouse buttons and moving the mouse wheel will rescale the window (change the size of the input picture). This will be further explained in the scaling part of this manual.

Change of Active Window

When in system mode there is always one window which is considered as the active window. The active window top left corner will be marked in white (as appose to black in all other windows) and its icon on the task bar will show as pressed.

Active Window is the window which the keyboard, audio and CAC device mapped to. In normal mode the mouse will also be mapped to this window.

Switching between active windows (when in system mode) is simply done by right clicking on another window with the mouse curser. Another option is pushing the front panel push buttons or using DCU.

Another option to switch between active windows in system mode is by using the wheel in the mouse. Windows will move to the front at a cyclic sequence.

Moving Between Windows in Normal Mode

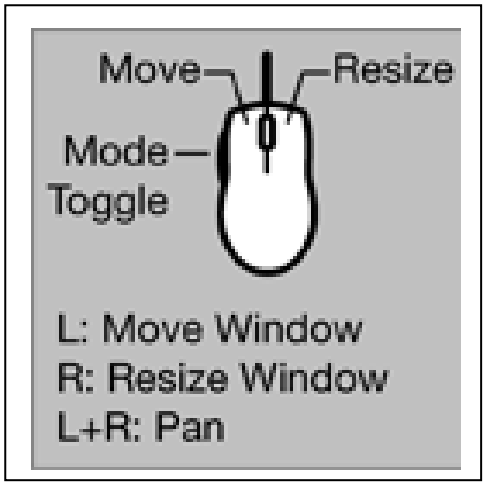
When in normal mode moving between windows can be done either by switching to system mode (by pressing the mouse side buttons), pointing at the new window and switching back to normal mode (by pressing the mouse side buttons again). Another option is to use the front panel push buttons or optional DCU.

Dragging a Window

In order to move a window user should first switch to system mode by pressing + or – mouse side buttons. In system mode, hold the left mouse button when the system cursor located on the desired window and the window will move. Release left mouse button to drop window in place.
Notes: Window movement to the left side is limited by the display boundary.
Window movement to the right side is unlimited (window may be pushed out of the display viewable area).

Window Resizing
In order to resize a window the user should first switch to system mode by pressing + or – mouse side buttons. In system mode, the user should drag the mouse while holding the right mouse button when the system cursor located on the bottom right corner of the desired window. Release right mouse button to freeze window size.
Note: Window size is limited by the size set for the window under the channel menu.

Window Internal Scroll
When window size is smaller than input image size it might be required to "move" the image inside the window. This is done by pointing at the window, pressing both mouse buttons at the same time and moving the mouse. Release the mouse buttons to freeze the position of the window.



Help button
The "?" button located at the task bar (see figure below) show mouse functionality bitmap with mouse functions.

Important Note:
If preset buttons do not work – check that the administrator settings key is not inserted at the front panel keylock. If yes – remove it and return to the administrator.
Rotation of the keylock to Administrator mode also affects the following:

1. User preset keys becoming inaccessible
2. All 3 user presets are erased

This is normal system behavior that designed to avoid configuration conflicts.

Maximizing a window to full screen mode
To maximize a window to its full size – enter System Mode by pressing + or – mouse side buttons then bring the system cursor to the window that should be maximized and then double click on that window.
The selected window will maximize to its native input resolution. No other windows or bars will be displayed.
To leave maximize mode – change back to system mode (by pressing the mouse side buttons) and re arrange windows as needed. Changing to system mode will

Note: When the Belkin Secure Windowing KVM maximizes a window it will change output display resolution to the input resolution. The reaction of this change on the display may change according to the display design. Some display may automatically adjust to new resolution and rescale (showing full image), while other may not and will show black borders around image.

Note: Maximizing a window to full screen mode in the 204M is slightly different than other models. See detailed explanation below.

Note: When using the Belkin Secure Windowing KVM it is possible to maximize a window directly from normal mode. Pressing CTRL | CTRL | f will maximize the window in which the user is working.

Deactivating / Activating channels

The user can remove from the Belkin Secure Windowing KVM display inactive channels. In order to deactivate a channel the user should enter system mode and then move the system cursor to the desired channel button at the task bar and double-click on it. Red X should appear on that channel (see figure below).

In some cases the user may want to deactivate a live channel for operational reasons. The Belkin Secure Windowing KVM will display instead on that channel a background color.

In this example channel #1 was deactivated

Repeating this process will cancel this status and reactivate that channel.

Once a channel had been deactivated it would not participate in cyclic toggling between windows and will not be displayed in anyway.

Dual display operation [F1DN204M only]

Maximizing a window

When in system mode, double-clicking on a window will maximize that window to full screen. If the window is shown on both displays it will maximizes at the display where a larger portion of that window lying at. For example: if 60% of the window is at the primary display – it will maximize at the primary. When it is maximizing – the other 40% of that window will disappear from the secondary display. The second monitor will still display the same windows as before accessing the full screen mode. Any other windows on the display to which the window was maximized will be hidden behind the maximized window.

In dual display mode, the tile function will place channels 1 and 3 windows on the primary display and channels 2 and 4 windows at the secondary display.

The Belkin Secure Windowing KVM includes a scaling function. The scaling function allows the user to reduce the size the source image without losing information, enabling him to see more of the sources on limited screen space. Scaling is done by an advance scaling algorithm developed by Belkin.

Tile Feature

The tile feature is accessed from System Mode by clicking on the Tile button located on the task bar. By pressing tile the windows will arrange in tile mode but will automatically be scaled by 1:2x factor. For example, if the input source resolution is 1920 x 1080 the image displayed in the source window will be 960 x 540. The size of the window is, as always, determined by the output resolution (will be a quarter of the available screen area). Tile is actual a preset of system mode and once in tile mode all system mode functions are available.

Scale a specific Window

From System mode it is possible to scale a specific window simply by pointing on the active window, pressing the mouse side buttons and moving the mouse wheel.

This will toggle the scaling of the active window between 1:2x, 1:4x and no scaling keeping the actual window frame size fixed.

It is also possible to scale a window (both from system and normal modes by using the CTRL | CTRL | +/- key combination where pressing + will reduce the scaling (from 1:4X to 1:2X and from 1:2X to no scaling) and the – will increase the scaling (from no scaling to 1:2X and from 1:2X to 1:4X).

Scale Feature

By pressing the Scale button on the System Mode task bar the screen will be re-arranged as follow:

User display on the Windowing KVM in Scale mode

The active window centered (not scaled) and the other windows will move to the right side and scaled 1:4x.
It is still possible in this mode to use all standard System Mode functions to switch active between windows.
Also, once in scale mode moving the mouse wheel will toggle between windows making a different source the central display.
Using the front panel push buttons and DCU will change the active window without repositioning the windows.

Section 5 - Troubleshooting Guide

General

Problem: No power - No video output, none of the front panel LEDs is illuminating.

Solutions:

- Check that the power supply is properly connected to the mains socket.
- Check that DC plug is fully inserted into the KVM DC jack.
- Check that the connected power supply is the proper one (12V/5A). Do not use power supply from another vendor!
- Check that the device is powered-on by using optical mouse with visible red light. If power not available – change power supply.

Problem: How do I restore the factory settings of the Belkin Secure Windowing KVM?

Solutions: It is possible to restore the device to its original factory settings through the use of *Restore Factory Defaults* switch (see image 17 on page 12). Pressing this switch for 2-3 seconds will return the KVM to the original production settings including lowest output resolution.

Problem: Channel select LEDs are blinking. Belkin Secure Windowing KVM does not work.

Solutions: Device anti-tampering system was triggered. Change unit and call Belkin technical support.

Problem: Preset buttons not accessible

Solutions: Normal behavior if Administrator key is inserted into the front panel keylock. Remove the key.

Problem: Preset buttons are erased (empty)

Solutions: Normal behavior if KVM entered administrator setting mode.

Video

Problem: No video image in user display (all channels)

Solutions:

- Check that the display is properly powered.
- Check that DVI cable (or DP cable in 104Y) is properly secured at both sides.
- Check at the display on-screen menu that source selected is DVI (or DP in 104Y).
- Check if PC video output mode is DVI (or DP in 104Y).
- Connect the display directly to the PC to confirm that video output is available and that good image is shown.
- Perform Restore to Factory Defaults using the rear panel recessed switch (see item 16 in the figure at page 11 above)

Problem: No video image in user display (specific channel only)

Solutions:

- Reboot the computer.
- Check that the video cable connecting computer and KVM is properly secured at both sides.
- Check that PC video output is sent to the connected video connector (if PC supports multiple displays).
- Check that PC resolution matches connected display capabilities.
- Connect the display directly to the PC to confirm that video output is available and that good image is shown.

Problem: Window showing smaller image with black borders or bad image.

Solutions: Belkin Secure Windowing KVM channel was connected to a source that is set to lower resolution than the KVM setting for that channel.

- Adjust source (PC) resolution to match Windowing KVM channel resolution.
- Change channel input resolution in KVM to lower resolution using administrator mode.

Problem: Window showing background color (no image inside).

Solutions:

- Check that the channel is not deactivated by user
- Check that video cable connected properly between the Belkin Secure Windowing KVM and the attached computer.
- Check that connected computer is powered on / not in display power saving mode.
- Connect the display directly to that computer to verify that proper video output is available.

Problem: Bad video image quality (some or all channels)

Solutions:

- Check that all video cables are inserted properly to the KVM, computer, and display.
- Check that cables are original cables supplied by Belkin.
- With everything connected, power-cycle the Windowing KVM to reset the video. Make sure the Video Diagnostic LED is solid green.
- Check that the display that you are using supports the resolution and refresh-rate setting on your computer.
- Lower the video resolution of your PCs.
- Check that the video-cable length does not exceed 4.6m (15 feet).
- Connect the display directly into the computer you are having trouble with to see if the problem still appears

Keyboard

Problem: Keyboard and mouse are not working (two channels).

Solutions:

- Check that computer USB and video cables are not crossed (i.e. computer #1 video connected to KVM port #1 while USB cable is connected to KVM port #2).

Problem: Keyboard does not work (all channels)

Solutions:

- Check that the keyboard was not connected to the USB mouse console jack.
- Check that the keyboard you are using is connected properly to the KVM.
- Check that the USB cable between the KVM and the computer is completely connected.
- Try connecting to a different USB port on the computer.
- Make sure the keyboard works when directly plugged into the computer (the HID USB driver is installed on the computer).
- Rebooting may be necessary when trying this.
- Make sure you are not using a wireless keyboard or a keyboard with an integrated USB hub or other USB-integrated devices. These are not supported by the KVM due to security policy.
- If the computer is coming out of standby mode, allow up to one minute to regain mouse function.
- Try a different keyboard.

Problem: Keyboard Caps Lock and Num Lock LEDs are not working

Solutions:

This is a normal behavior – Belkin Secure Windowing KVM blocks all communications from computers to the keyboard to prevent certain potential data leakages.

Problem: Certain keyboard functions are not working

Solutions:

Some non-standard keyboard functions are disabled by the KVM to prevent security risks. You may try specific keyboards or contact Belkin support for latest compatibility list.

Mouse

Problem: Mouse does not work (all channels)

Solutions:

- Check that the mouse you are using is connected properly to the KVM.
- Check that the USB cable between the KVM and the computer is completely connected.
- Try connecting to a different USB port on the computer.
- Make sure the mouse works when directly plugged into the computer (the HID USB driver is installed on the computer).
- Rebooting may be necessary when trying this.
- Make sure you are not using a wireless mouse or a mouse with an integrated USB hub or other USB-integrated devices. These are not supported by the KVM due to security policy.
- If the computer is coming out of standby mode, allow up to one minute to regain mouse function.
- Try a different mouse.

Section 6 - FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin International, Inc., of 12045 E. Waterfront Drive, Playa Vista, CA 90094, declare under our sole responsibility that the products: F1DN104M, F1DN204M, and F1DN104Y to which this declaration relates:

Comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE Declaration of Conformity

We, Belkin International, Inc., declare under our sole responsibility that the products F1DN104M, F1DN204M, and F1DN104Y to which this declaration relates, are in conformity with Emissions Standard EN55022 and with Immunity Standard EN55024, LVP EN61000-3-2, and EN61000-3-3.

ICES

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme á la norme NMB-003 du Canada.

Section 7 - Warranty

Belkin International, Inc., Limited 3-Year Product Warranty

What this warranty covers.

Belkin International, Inc. ("Belkin") warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin warrants the Belkin product for three years.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product). Belkin reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued products. In the event that Belkin is unable to repair or replace the product (for example, because it has been discontinued), Belkin will offer either a refund or a credit toward the purchase of another product from Belkin.com in an amount equal to the purchase price of the product as evidenced on the original purchase receipt as discounted by its natural use.

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, lightning, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service

To get service for your Belkin product you must take the following steps:

1. Contact Belkin International, Inc., at 12045 E. Waterfront Drive, Playa Vista, CA 90094, Attn: Customer Service, or call (800)-223-5546, within 15 days of the Occurrence. Be prepared to provide the following information:
    a. The part number of the Belkin product.
    b. Where you purchased the product.
    c. When you purchased the product.
    d. Copy of original receipt.

2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and

estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

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Reporting Belkin Product Security Vulnerability

If you are aware of potential security vulnerability with any Belkin Government product, we encourage you to contact us immediately at the following email address: gov_security@belkin.com or our technical support line at: 1-800-419-5546

After your communication is received, Belkin Government personnel will contact you to follow up. To ensure confidentiality, Belkin encourages you to use our PGP encryption key.

The gov_security@belkin.com email address is not intended to reach technical support on Belkin Government products or services. Any support inquiries should be directed to support@belkin.com.

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